

Checklist of the Chinese Plataspidae (Heteroptera, Pentatomoidea)¹

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Abstract: A checklist of the Plataspidae of China is provided. The distribution of 95 species (one of them uncertain), classified in ten genera, in the provinces of China is given. A new combination, *Megacopta breviceps* (HORVÁTH 1879), is suggested.

Key words: China, Plataspidae, provincial distribution, *Megacopta breviceps* comb.nov.

Introduction

The family Plataspidae (Insecta, Heteroptera) is consensually classified in the superfamily Pentatomoidea. Consistently, the plataspids possess a beetle-like appearance, due to their enormously enlarged scutellum, covering the whole abdomen.

The 5th volume of the Catalogue of the Heteroptera of the Palaearctic region contains general informations about the family Plataspidae, including a historical review of its higher classification (DAVIDOVÁ-VILÍMOVÁ 2006). Plataspidae contain more than 530 species in 59 genera worldwide. While the genus *Coptosoma* LAPORTE 1833 only occurs in the Western Palaearctic (e.g., DAVIDOVÁ & ŠTYS 1980), the representatives of the other nine genera are distributed in the Eastern Palaearctic, particularly in China. KIRKALDY (1909), following earlier catalogues, e.g., LETHIERRY & SEVERIN (1893) and BERGROTH (1908), summarized all known data about the distribution of Chinese representatives of the Plataspidae (as Coptosominae).

Beside general catalogues and lists of Chinese Plataspidae (e.g., HOFFMANN 1932, 1935; WU 1935), YANG (1934a) revised all 44 Chinese plataspid species. HSIAO & REN (1977) published a comprehensive study, including 66 species of Chinese Plataspidae and described three new genera. Consequently, new taxa of Plataspidae were described from China (e.g., LI 1981; REN 1984, 2000; CHEN 1989; XUE & LIU 2002a, 2002b) and the occurrence of new taxa for China was published (e.g., ZHANG & LIN 1981; ZHAO 1981; NONNAIZAB 1988, 1991; LIN & ZHANG 1992, 1993a, 1993b).

The present paper deals with the actual checklist of the Chinese Plataspidae, which includes 95 species (one of them uncertain) from ten genera. A new combination for *Megacopta breviceps* (HORVÁTH 1879) is suggested. Detailed distribution in the Chinese provinces is mentioned for all species listed.

¹This paper is dedicated to celebrate the 70th birthday of Ernst Heiss.

Check-list of Chinese species of Plataspidae

Plataspidae DALLAS 1851

1. Plataspinae DALLAS 1851

1.1 *Brachyplatys* BOISDUVAL 1835

Type species: *Brachyplatys vanikorensis* BOISDUVAL 1835

Brachyplatys BOISDUVAL 1835: 627

Brachyplatys carolinae ATKINSON 1889: 341. HOFFMANN 1935: 9.

Distribution: Taiwan.

Brachyplatys cyclops YANG 1934a: 153. HSIAO & JEN 1977: 19.

Distribution: Jiangxi.

Brachyplatys deplanatus (ESCHSCHOLTZ 1822): 102. YANG 1934a: 148-149; HSIAO & JEN 1977: 19.

Distribution: Macao.

Brachyplatys funebris DISTANT 1901: 235. HSIAO & JEN 1977: 18.

Distribution: Fujian, Jiangxi, Hubei, Guangdong, Guangxi, Guizhou, Yunnan, Xizang.

Brachyplatys liturifrons WALKER 1867: 102.

Distribution: Fujian, Guangdong, Guangxi, Hainan, Yunnan, Taiwan.

Brachyplatys punctipes MONTANDON 1894b: 122. YANG 1934a: 146-148.

Distribution: Fujian, Guangdong, Hainan, Sichuan, Guizhou, Yunnan.

Brachyplatys sexpunctatus LIN & ZHANG 1993b: 107, 139.

Distribution: Fujian.

Brachyplatys subaeneus (WESTWOOD 1837): 17. YANG 1934a: 151-153; HSIAO & JEN 1977: 17.

Distribution: Fujian, Guangdong, Guangxi, Hainan, Guizhou, Yunnan, Taiwan, Macao.

Brachyplatys vahliei vahliei (FABRICIUS 1787): 283. YANG 1934a: 149-151; HSIAO & JEN 1977: 17.

Distribution: Fujian, Jiangxi, Guangdong, Guangxi, Hainan.

Brachyplatys vahliei similis HSIAO & JEN 1977: 17, 292.

Distribution: Fujian.

1.2 *Neotiarocoris* LIN & ZHANG 1993

Type species: *Neotiarocoris leishanensis* LIN & ZHANG 1993

Neotiarocoris LIN & ZHANG 1993a: 183, 185.

Neotiarocoris leishanensis LIN & ZHANG 1993a : 184, 185.

Distribution: Guizhou.

1.3 *Ponsilasia* HEINZE 1934

Type species: *Ponsilasia formosana* HEINZE 1934

Ponsilasia HEINZE 1934: 283.

Aponsila HSIAO & JEN 1977: 15, 19, 292 [syn. by XUE & LIU 2002a: 96, 99].

Ponsilasia cycloceps (HSIAO & JEN 1977): 19, 293. XUE & LIU 2002a: 97.

Distribution: Hubei, Guangxi, Sichuan, Xizang.

Ponsilasia formosana HEINZE 1934: 285-287. XUE & LIU 2002a: 97.

Distribution: Taiwan.

Ponsilasia montana (DISTANT 1901): 234. HSIAO & JEN 1977: 20; XUE & LIU 2002a: 97.

Distribution: Zhejiang, Fujian, Jiangxi, Guangdong, Guangxi, Hainan, Guizhou, Xizang.

Ponsilasia yunnanensis XUE & LIU 2002a: 97, 98, 100.

Distribution: Yunnan, Guangxi.

1.4 *Tiarocoris* VOLLENHOVEN 1863

Type species: *Tiarocoris sumatranus* VOLLENHOVEN 1863

Tiarocoris VOLLENHOVEN 1863: 51.

Tiarocoris consertus DISTANT 1901: 235. HOFFMANN 1935: 12.

Distribution: Taiwan.

2. Coptosomatinae KIRKALDY 1909

2.1 *Calacta* STÅL 1865

Type species *Calacta lugubris* STÅL 1865

Calacta STÅL 1865: 163.

Calacta lugubris STÅL 1865: 163. YANG 1934a: 144; HSIAO & JEN 1977: 29.

Distribution: Fujian, Guangdong, Guangxi, Hong Kong.

2.2 *Coptosoma* LAPORTE 1833

Type species: *Cimex scutellatus* GEOFFROY 1785

Coptosoma LAPORTE 1833: 67, 73.

Coptosoma belmonti PITON 1940: 44.

Distribution: Yunnan.

Coptosoma bicuspis HSIAO & JEN 1977: 30, 295. BU & REN 1995: 120.

Distribution: Zhejiang, Fujian, Jiangxi.

Coptosoma bifarium MONTANDON 1897: 450. YANG 1934a: 210-212; HSIAO & JEN 1977: 29-30; LIN & ZHANG 1993a: 182.

Distribution: Beijing, Shanxi, Anhui, Fujian, Jiangxi, Henan, Hubei, Hunan, Guangxi, Sichuan, Guizhou, Xizang, Shaanxi, Gansu, Ningxia.

Coptosoma biguttulum MOTSCHULSKY 1860: 501. YANG 1934a: 207-209; NONNAIZAB & Liu 1982: 96, NONNAIZAB 1999: 78.

Distribution: Hebei, Inner Mongolia, Heilongjiang, Gansu.

Coptosoma binota YANG 1934a: 197. HSIAO & JEN 1977: 35-36.

Distribution: Sichuan.

Coptosoma bipunctatum AHMAD & MOIZUDDIN 1992: 21.

Distribution: Beijing, Yunnan.

Coptosoma breviculum MONTANDON 1897: 461. YANG 1934a: 204-206; HSIAO & JEN 1977: 34.

Distribution: Sichuan.

Coptosoma capitatum JAKOVLEV 1880: 200. NONNAIZAB 1988: 45-46, 1999: 78.

Distribution: Hebei, Inner Mongolia, Jilin, Heilongjiang, Hubei, Shaanxi, Gansu, Ningxia.

Coptosoma chekianum YANG 1934a: 202. HSIAO & JEN 1977: 32.

Distribution: Zhejiang, Fujian, Jiangxi, Henan, Hubei, Hunan, Guangxi, Sichuan, Guizhou.

Coptosoma chinense SIGNORET 1881: 46. JOSIFOV & KERZHNER 1978: 193.

Distribution: Beijing, Shanxi, Jilin, Sichuan.

Coptosoma cinctum (ESCHSCHOLTZ 1822): 105. YANG 1934a: 190; HSIAO & JEN 1977: 35.

Distribution: Zhejiang.

Coptosoma cornutum XUE & LIU 2002b: 750.

Distribution: Xizang.

Coptosoma davidi MONTANDON 1897: 460. YANG 1934a: 200-201; HSIAO & JEN 1977: 32; LIN & ZHANG 1992: 215.

Distribution: Zhejiang, Fujian, Jiangxi, Henan, Hunan, Guangdong, Guangxi, Sichuan, Guizhou, Xizang.

Coptosoma dianqianum XUE & LIU 2002b: 751.

Distribution: Guizhou, Yunnan.

Coptosoma distigma MONTANDON 1896: 441. HOFFMANN 1935: 16.

Distribution: Taiwan.

Coptosoma excoffieri MONTANDON 1899: 79. YANG 1934a: 166-167; HSIAO & JEN 1977: 33; ZHANG & LIN 1992: 106; LIN & ZHANG 1993a: 183.

Distribution: Sichuan, Guizhou, Yunnan.

Coptosoma fidiceps HSIAO & JEN 1977: 30, 295. ZHANG & LIN 1992: 106.

Distribution: Henan, Sichuan, Guizhou, Yunnan.

Coptosoma flavidum HSIAO & JEN 1977: 33, 295. REN 1987: 106.

Distribution: Hainan, Yunnan.

Coptosoma gyirongna ZHANG & LIN 1981: 134, 142.

Distribution: Xizang.

Coptosoma intermedium YANG 1934a: 160, 179. HSIAO & JEN 1977: 36-37. ZHANG & SIE 1987: 69; LIN et al. 1999: 31.

Distribution: Fujian, Hubei, Guangdong, Guangxi, Hainan, Sichuan, Guizhou, Yunnan, Xizang, Gansu.

Coptosoma japonicum MATSUMURA 1913: 104. ZHAO 1981: 40.

Distribution: Fujian.

Coptosoma lascivum BERGROTH 1892: 173. HSIAO & JEN 1977: 38; REN 2000: 32.

Distribution: Fujian, Jiangxi, Henan, Guangdong, Hainan, Guizhou, Yunnan.

Coptosoma minutum REN 1984: 93, 95.

Distribution: Guangdong.

Coptosoma montanum HSIAO & JEN 1977: 34, 295. BU & REN 1995: 120.

Distribution: Beijing, Zhejiang, Jiangxi, Henan, Hunan.

Coptosoma mundum BERGROTH 1892: 172. HSIAO & JEN 1977: 32; LIN & ZHANG 1992: 216.

Distribution: Fujian, Jiangxi, Henan, Hubei, Hunan, Guangdong, Hainan, Guizhou.

Coptosoma nigrellum HSIAO & JEN 1977: 29, 295. LIN & ZHANG 1993b: 108-109; BU & REN 1995: 120.

Distribution: Jiangsu, Zhejiang, Fujian, Jiangxi, Henan, Guangxi, Guizhou.

Coptosoma nigricolor MONTANDON 1896: 437. YANG 1934a: 216-217. HSIAO & JEN 1977: 34.

Distribution: Zhejiang, Jiangxi, Guangdong, Hainan, Sichuan, Guizhou.

Coptosoma notabile MONTANDON 1894a: 278. ZHANG & LIN 1988: 83.

Distribution: Beijing, Zhejiang, Anhui, Fujian, Jiangxi, Hubei, Hunan, Guangdong, Guangxi, Hainan, Sichuan, Guizhou, Yunnan, Xizang, Shaanxi, Gansu.

Coptosoma noualhieri MONTANDON 1896: 439. HUA 2000: 164.

Distribution: Fujian.

Coptosoma parvipictum MONTANDON 1892: 281. HSIAO & JEN 1977: 31; LIN & ZHANG 1993a: 182.

Distribution: Zhejiang, Anhui, Fujian, Jiangxi, Hubei, Hunan, Guangdong, Guangxi, Sichuan, Guizhou.

Coptosoma pervulgatum XUE & LIU 2002b: 752.

Distribution: Zhejiang, Fujian, Hubei, Sichuan, Guizhou.

Coptosoma pinfa YANG 1934a: 203. HSIAO & JEN 1977: 30.

Distribution: Fujian, Guangdong, Guizhou, Yunnan.

Coptosoma prolaticeps MONTANDON 1896a: 435. YANG 1934a: 177-179; HSIAO & JEN 1977: 31.

Distribution: Anhui, Jiangxi, Fujian, Hubei.

Coptosoma pulchellum MONTANDON 1894b: 136. YANG 1934a: 177-179; HSIAO & JEN 1977: 37; ZHANG & SIE 1987: 70.

Distribution: Fujian, Henan, Hubei, Hunan, Guangdong, Sichuan, Guizhou, Yunnan, Xizang.

[*Coptosoma rabieri* MONTANDON 1897: 458. YANG 1934a: 206; HSIAO & JEN 1977: 35.]

Note: Originally described from Song-chai Mountains (North Vietnam) by MONTANDON (1897); YANG (1934a) mentioned this species in his paper and investigated the distribution between Yunnan and Tonkin, but there are no confirmed records from China.

Coptosoma scutellatum (GEOFFROY 1785): 195. JOSIFOV & KERZHNER 1978: 191; NONNAIZAB 1988: 44-45, 1999: 78.

Distribution: Inner Mongolia, Jilin, Heilongjiang.

Coptosoma seguyi YANG 1934a: 198. HSIAO & JEN 1977: 36.

Distribution: Beijing.

Coptosoma semiflavum JAKOVLEV 1890: 541. YANG 1934a: 182-183; HSIAO & JEN 1977: 36; LIN & ZHANG 1993a: 183.

Distribution: Zhejiang, Fujian, Jiangxi, Guangdong, Sichuan, Guizhou.

Coptosoma simillimum HSIAO & JEN 1977: 38, 295. ZHANG & SIE 1987: 70.

Distribution: Fujian, Jiangxi, Henan, Guangdong, Hainan, Sichuan, Yunnan, Xizang.

Coptosoma sordidulum MONTANDON 1892: 283. YANG 1934a: 213-214; HSIAO & JEN 1977: 30.

Distribution: Anhui, Guangxi, Sichuan, Shaanxi.

Coptosoma sphaerula (GERMAR 1839): 25. YANG 1934a: 177-179; HSIAO & JEN 1977: 37-38.

Distribution: Fujian, Hong Kong.

Coptosoma triangulum YANG 1934a: 194-196. HSIAO & JEN 1977: 32.

Distribution: Guizhou, Sichuan.

Coptosoma tuberculatum REN 1984: 92, 95.

Distribution: Yunnan.

Coptosoma variegatum (HERRICH-SCHAEFFER 1838): 83. YANG 1934a: 217-221; HSIAO & JEN 1977: 38.

Distribution: Shanxi, Zhejiang, Anhui, Fujian, Jiangxi, Shandong, Shaanxi, Henan, Guangdong, Sichuan, Guizhou, Yunnan, Xizang.

Coptosoma yunnanum REN 1984: 91, 94.

Distribution: Guangxi, Yunnan.

Coptosoma zhamua ZHANG & LIN 1981: 133, 142. ZHANG & SIE 1987: 70.

Distribution: Xizang.

2.3 *Megacopta* HSIAO & JEN 1977

Type species: *Cimex cribrarius* FABRICIUS 1798

Megacopta HSIAO & JEN 1977: 15, 21, 293.

Megacopta bicolor HSIAO & JEN 1977: 23, 294. LIN & ZHANG 1993a: 183; LIN et al. 1999: 35.

Distribution: Guizhou, Jiangxi, Fujian, Guangdong, Guangxi, Sichuan, Yunnan.

Megacopta bituminata (MONTANDON 1897): 452. YANG 1934a: 183-185; HSIAO & JEN 1977: 27, 294.

Distribution: Tianjin, Zhejiang, Fujian, Jiangxi, Henan, Hubei, Hunan, Guangxi, Hainan, Sichuan, Guizhou, Yunnan.

Megacopta breviceps (HORVÁTH 1879) **nov.comb.**

Coptosoma breviceps HORVÁTH 1879: 142. YANG 1934a: 168-169.

Distribution: Zhejiang.

Note: YANG (1934a) mentioned this species based on HORVÁTH's (1879) original description. The species is placed in *Megacopta* because its tibiae are sulcate for the whole length and it bears ray-like fasciae on the lateral part of the abdomen ventrally based on the original description.

Megacopta caliginosa (MONTANDON 1893a): 562. YANG 1934a: 173-174; HSIAO & JEN 1977: 28, 294.

Distribution: Fujian, Hubei, Sichuan, Guizhou.

Megacopta callosa (YANG 1934a): 173. HSIAO & JEN 1977: 28, 294.

Distribution: Sichuan, Yunnan.

Megacopta centronubila (YANG 1934a): 169. HSIAO & JEN 1977: 26; ZHANG & LIN 1992:108.

Distribution: Sichuan, Guizhou, Yunnan.

Megacopta centrosignata (YANG 1934b): 114. HSIAO & JEN 1977: 24, 293.

Distribution: Hainan, Sichuan, Yunnan.

Megacopta cribraria (FABRICIUS 1798): 531. YANG 1934a: 161-164; HSIAO & JEN 1977: 22, 293; LIN & ZHANG 1993b:110; BU & REN 1997: 213.

Distribution: Tianjin, Hebei, Shanxi, Shanghai, Jiangsu, Zhejiang, Anhui, Fujian, Jiangxi, Shandong, Henan, **Hubei**, Hunan, Guangdong, Guangxi, Hainan, Sichuan, Guizhou, Yunnan, Xizang, Shaanxi, Taiwan, Macao.

Megacopta cribrilla HSIAO & JEN 1977: 22, 294. ZHANG & SIE 1987: 70; ZHANG & LIN 1988: 83; LIN et al. 1999: 35.

Distribution: Fujian, Jiangxi, Hubei, Guangdong, Guangxi, Hainan, Xizang.

Megacopta cyclocephala HSIAO & JEN 1977: 25, 294. ZHANG & LIN 1992:108.

Distribution: Guangxi, Yunnan.

Megacopta dinghushana CHEN 1989: 105.

Distribution: Guangdong, Hainan, Yunnan.

Megacopta distant (MONTANDON 1893a): 564. YANG 1934a: 174-176; HSIAO & JEN 1977: 27, 294; LIN & ZHANG 1993a: 183.

Distribution: Beijing, Hebei, Zhejiang, Fujian, Jiangxi, Henan, Hunan, Guangxi, Sichuan, Guizhou, Yunnan, Xizang, Shaanxi, Gansu.

Megacopta fimbriata (DISTANT 1887): 342. YANG 1934a: 214-215; HSIAO & JEN 1977: 28-29.

Distribution: Jiangxi, Henan, Guizhou.

Megacopta fimbrilla LI 1981: 191.

Distribution: Xizang.

Megacopta horvathi (MONTANDON 1894a): 260. YANG 1934a: 164-166; HSIAO & JEN 1977: 23, 293; BU & REN 1997: 213.

Distribution: Zhejiang, Fujian, Jiangxi, Henan, Hubei, Hunan, Guangdong, Guangxi, Sichuan, Guizhou, Yunnan, Shaanxi, Gansu, Taiwan.

Megacopta hui (YANG 1934a): 157, 171. HSIAO & JEN 1977: 25, 294; BU & REN 1997: 213-214.

Distribution: Jiangxi, Sichuan, Guizhou.

Megacopta laeviventris HSIAO & JEN 1977: 24, 294.

Distribution: Guangxi, Sichuan.

Megacopta liniola HSIAO & JEN 1977: 22, 294.

Distribution: Guangdong.

Megacopta lobata (WALKER 1867): 88. YANG 1934a: 167; HSIAO & JEN 1977: 23; LIN et al. 1999: 37.

Distribution: Fujian, Jiangxi, Guangdong, Guangxi, Yunnan, Hong Kong.

Megacopta longruiana REN 2000: 37, 39.

Distribution: Guangxi.

Megacopta rotunda HSIAO & JEN 1977: 26, 294.

Distribution: Fujian.

Megacopta subsolitaris (YANG 1934b): 118. HSIAO & JEN 1977: 26.

Distribution: Guangxi, Yunnan.

Megacopta tubercula HSIAO & JEN 1977: 23, 294.

Distribution: Yunnan.

Megacopta verrucosa (MONTANDON 1897): 456. YANG 1934a: 192-194; HSIAO & JEN 1977: 27, 294.

Distribution: Sichuan, Guangxi, Xizang.

Megacopta w-nigrum (VARSHNEY 1965): 415.

Coptosoma w MONTANDON 1893b: 237.

Coptosoma w-nigrum VARSHNEY 1965: 415.

Coptosoma montandoni AHMAD & MOIZUDDIN 1992: 28-30 (unnecessary new name).

Distribution: Xizang.

Note: The name *Megacopta w* used by MONTANDON (1893b) is unavailable as consisting of one letter. Replacement names were proposed twice, the one by Varshney has priority.

2.4 *Paracopta* HSIAO & JEN 1977

Type species: *Paracopta marginata* HSIAO & JEN 1977

Paracopta HSIAO & JEN 1977: 20, 293.

Paracopta duodecimpunctata (GERMAR 1839): 30. HSIAO & JEN 1977: 20, 293; LIN et al.1999: 38.

Distribution: Fujian, Jiangxi, Hunan, Guangdong, Guangxi, Yunnan, Guizhou.

Paracopta maculata HSIAO & JEN 1977: 20, 293.

Distribution: Yunnan.

Paracopta marginata HSIAO & JEN 1977: 20, 293.

Distribution: Yunnan.

Paracopta rufiscuta HSIAO & JEN 1977: 21, 293.

Distribution: Yunnan.

2.5 Phyllomegacopta REN 2000

Type species: *Megacopta majuscula* HSIAO & JEN 1977

Phyllomegacopta REN 2000: 32-39.

Phyllomegacopta cobbeni REN 2000: 33, 38.

Distribution: Hainan.

Phyllomegacopta fujianensis REN 2000: 34, 39.

Distribution: Fujian.

Phyllomegacopta majuscula (HSIAO & JEN 1977): 28, 295. REN 2000: 34, 39.

Distribution: Zhejiang, Fujian.

2.6 Tarichea STÅL 1865

Type species: *Plataspis chinensis* DALLAS 1851

Tarichea STÅL 1865: 163.

Tarichea chinensis (DALLAS 1851): 74. Yang 1934a: 142-144; Hsiao & Jen 1977: 16; Lin et al. 1999: 39.

Distribution: Fujian, Guangdong, Guangxi, Sichuan, Guizhou, Yunnan, Gansu, Hong Kong.

Conclusions

Altogether the occurrence of 94 (95?) species of the family Plataspidae is confirmed from China. The subfamily Plataspinae is less numerous (15 species) than the subfamily Coptosomatinae. Concerning the number of species, the sequence of genera is as follows, *Coptosoma* with 45 (46?) species, *Megacopta* with 25 species, *Brachyplatys* with 9 species, *Paracopta* and *Ponsilasia* both with 4 species, genus *Phyllomegacopta* with 3 species, and the other genera each with one species – *Calacta*, *Neotiarocoris*, *Tarichea*, *Tiarocoris*. The genera *Coptosoma* and *Megacopta*, the second described by HSIAO & JEN (1977) by splitting from the huge genus *Coptosoma*, represent more than 2/3 of all Chinese Plataspidae. Most of the species are distributed on the mainland only, 66 (67?) species; less on the mainland and also on large islands, 22 species; four species only occur on Taiwan and one species only on Hainan. About 1/3 of the Chinese plataspids, 33 species, were described after YANG's (1934a) revision of this family, mostly in the genus *Coptosoma* (15 species) and *Megacopta* (10 species).

Acknowledgements

We thank J. Davidová-Vilímová (Prague) and I.M. Kerzhner (St. Petersburg) for constructive comments, which greatly helped to improve the paper.

Zusammenfassung

Es wird eine Checkliste der Plataspidae Chinas vorgestellt. Die Verbreitung von 95 Arten (eine unsicher) in zehn Gattungen in den Provinzen Chinas wird präsentiert. Eine neue Kombination wird für *Megacopta breviceps* (HORVÁTH 1879) vorgeschlagen.

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